

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

What is claimed is:

1. (Original) A method of forming a ZnO nanorod array, which comprises:
coating on a substrate ZnO nanoparticles serving both as a buffer layer and a seed layer; and
growing the ZnO nanoparticles into crystals in a nutrient solution containing hexamethylenetetramine and Zn nitrate, Zn acetate, or a derivative thereof.

2. (Original) A method of forming a ZnO nanowall array, which comprises:
coating on a substrate ZnO nanoparticles serving both as a buffer layer and a seed layer; and
growing the ZnO nanoparticles into crystals in a nutrient solution containing Zn acetate or its derivative and sodium citrate.

3. (Currently Amended) The method of claim 1-~~or 2~~, wherein the substrate is made of Si, sapphire (Al_2O_3), GaN, ScAlMgO_4 , or LiNbO_3 .

4. (Original) The method of claim 1, wherein the operation of growing the ZnO nanoparticles in the nutrient solution is performed at 30 to 400°C, and the volume ratio of Zn nitrate, Zn acetate, or a derivative thereof, to hexamethylenetetramine in the nutrient solution is 10:1 to 1:10.

5. (Original) The method of claim 2, wherein the operating of growing the ZnO nanoparticles in the nutrient solution is performed at 30 to 400°C, and the volume ratio of Zn acetate or its derivative to sodium citrate in the nutrient solution is 10:1 to 1:10.

6. (Original) A ZnO nanorod array formed by the method of claim 1.

7. (Original) A ZnO nanowall array formed by the method of claim 2.